

CLAIM AMENDMENTS

Claim 1 (Previously Presented)

An image-processing apparatus, in which a high-frequency component signal of an original image-signal, representing a plurality of pixels, is added to either said original image-signal or a lowest frequency image-signal of said original image-signal, in order to generate a processed image-signal, comprising:

a conversion-processing section to apply a conversion-processing to unsharp image-signals, generated from said original image-signal in respect to a plurality of frequency bands, so as to generate converted unsharp image-signals;

a differential processing section to generate differential image-signals, obtained from differences between said unsharp image-signals and said converted unsharp image-signals; and

an addition-processing section to totally add said differential image-signals to generate said high-frequency component signal of said original image-signal.

Claim 2 (Cancelled)

Claim 3 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing is to convert pixel values of said unsharp image-signals, based on a non-linear transform.

Claim 4 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing is determined by said original image-signal or said unsharp image-signals in said plurality of frequency-bands.

Claim 5 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing is determined by said original image-signal or said unsharp image-signals in adjacent pairs of frequency-bands.

Claim 6 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing varies depending on either one of pixel value of said unsharp image-signals employed for generating said differential image-signals or pixel values of said original image-signal.

Claim 7 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing varies depending on said
unsharp image-signals.

Claim 8 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing is a suppression-
processing for suppressing an averaging-processing for averaging
image-signals.

Claim 9 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing varies depending on
pixel values of said unsharp image-signals to be processed by
said conversion-processing.

Claim 10 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing varies depending on
pixel values of an unsharp image-signal at a lowest frequency-
band.

Claim 11 (Original)

The image-processing apparatus of claim 1,
wherein said conversion-processing varies depending on
pixel values of said original image-signal.

Claim 12 (Original)

The image-processing apparatus of claim 8,
wherein the lower a frequency-band in which said unsharp
image-signals reside is, the greater a degree of suppressing
said averaging-action for averaging said image-signals in said
suppression-processing is.

Claim 13 (Original)

The image-processing apparatus of claim 8,
wherein the higher a frequency-band in which said unsharp
image-signals reside is, the stronger a power of suppressing
said averaging-action for averaging said image-signals in said
suppression-processing is.

Claim 14 (Previously Presented)

An image-processing apparatus, in which a compensation-
signal generated from a low-frequency component signal of an
original image-signal, representing a plurality of pixels, is
added to either said original image-signal or a lowest frequency

image-signal of said original image-signal, in order to generate a processed image-signal, comprising:

a conversion-processing section to apply a conversion-processing to unsharp image-signals, generated from said original image-signal in respect to a plurality of frequency bands, so as to generate converted unsharp image-signals;

a differential processing section to generate differential image-signals, obtained from differences between said unsharp image-signals and said converted unsharp image-signals; and

a compensation-signal calculating section to totally add said differential image-signals so as to generate a high-frequency component signal, and to calculate said compensation-signal by subtracting said low-frequency component signal from a converted low-frequency component signal, which is derived from a difference between said high-frequency component signal and said original image-signal.

Claim 15 (Cancelled)

Claim 16 (Original)

The image-processing apparatus of claim 14,

wherein said conversion-processing is to convert pixel values of said unsharp image-signals, based on a non-linear transform.

Claim 17 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing is determined by said original image-signal or said unsharp image-signals in said plurality of frequency-bands.

Claim 18 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing is determined by said original image-signal or said unsharp image-signals in an adjacent pair of frequency-bands.

Claim 19 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing varies depending on either one of pixel value of said unsharp image-signals employed for generating said differential image-signals or pixel values of said original image-signal.

Claim 20 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing varies depending on said unsharp image-signals.

Claim 21 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing is a suppression-processing for suppressing an averaging-processing for averaging image-signals.

Claim 22 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing varies depending on pixel values of said unsharp image-signals to be processed by said conversion-processing.

Claim 23 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing varies depending on pixel values of an unsharp image-signal at a lowest frequency-band.

Claim 24 (Original)

The image-processing apparatus of claim 14,
wherein said conversion-processing varies depending on pixel values of said original image-signal.

Claim 25 (Original)

The image-processing apparatus of claim 21,
wherein the lower a frequency-band in which said unsharp image-signals reside is, the greater a degree of suppressing said averaging-processing for averaging said image-signals in said suppression-processing is.

Claim 26 (Original)

The image-processing apparatus of claim 21,
wherein the higher a frequency-band in which said unsharp image-signals reside is, the stronger a power of suppressing said averaging-action for averaging said image-signals in said suppression-processing is.

Claims 27-81 (Cancelled)